PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 218 (SUITLAND ROAD) AND EWING AVENUE/SHADYSIDE AVENUE IN PRINCE GEORGE'S COUNTY. MD 218 IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION.

INTERSECTION OPERATION

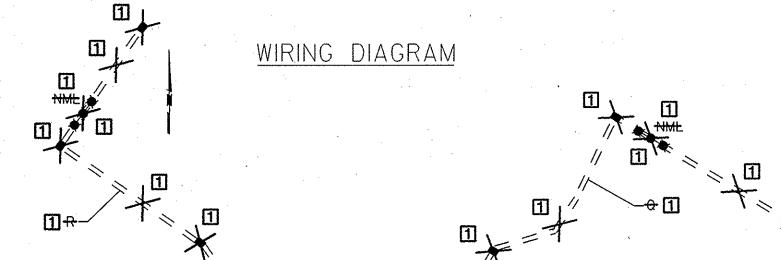
THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH CONCURRENT MAINLINE PHASING. DUE TO THE LAYOUT OF THE SIDE STREET APPROACHES, THEY WILL OPERATE UNDER SEPERATE

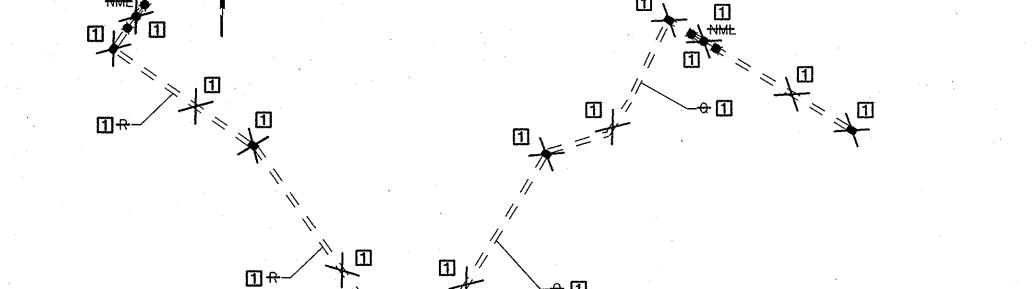
CONTROLLER REQUIREMENTS

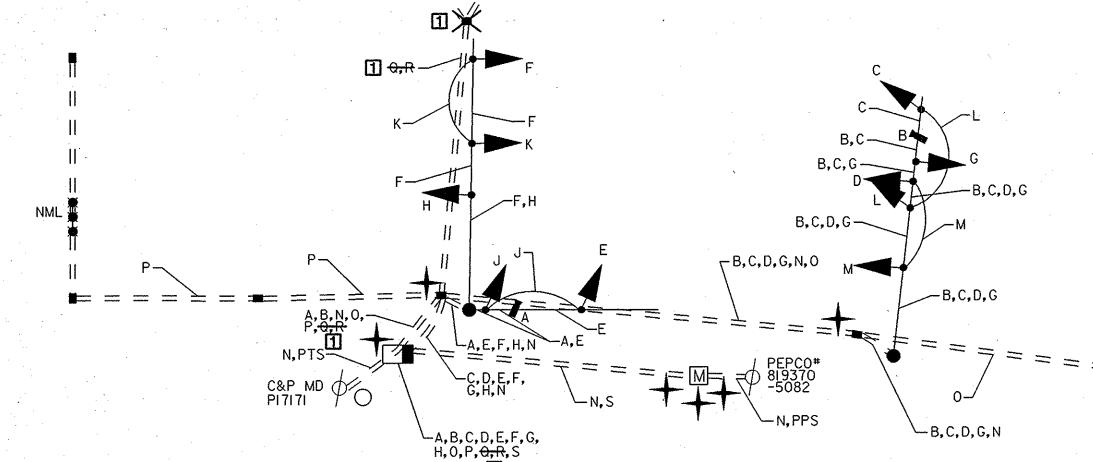
INSTALL A NEW EIGHT-PHASE FULLY ACTUATED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESSES IN A NEMA SIZE "6" BASE MOUNTED CABINET. INSTALL ONE (I) NEW 4-CHANNEL DETECTOR AMPLIFIER AND ONE (I) VIDEO DETECTION INTERFACE FOR I-4 CAMERAS.

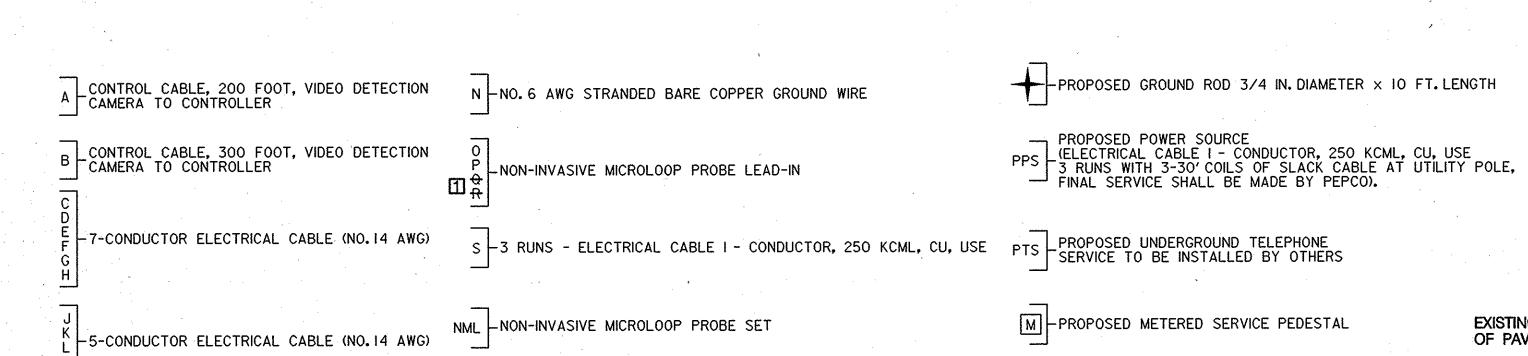
PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.









THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Brian Young Assistant District Engineer - Traffic Phone: 301-513-7358

Mr. Augie Rebish Assistant District Engineer - Utility Phone: 301-513-7350

Mr. Wayne Mowdy Assistant District Engineer - Maintenance Phone: 301-513-7304

Mr. Richard L. Daff Sr. Chief, Traffic Operations Division Phone: 410-787-7630

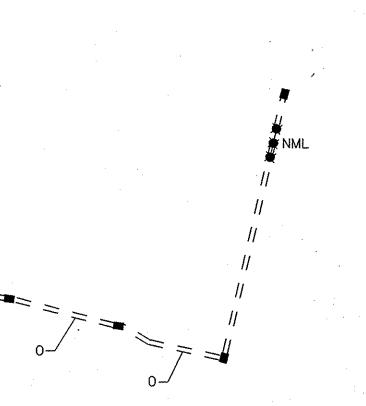
Mr. Edward Rodenhizer Chief, SHA Traffic Signal Shop Phone: 410-787-7650

The Power Company Representative is: Potomac Electric Power Company 4061 Powder Mill Road, Suite 600 Calverton, Maryland 20705 Phone: 301-931-2880

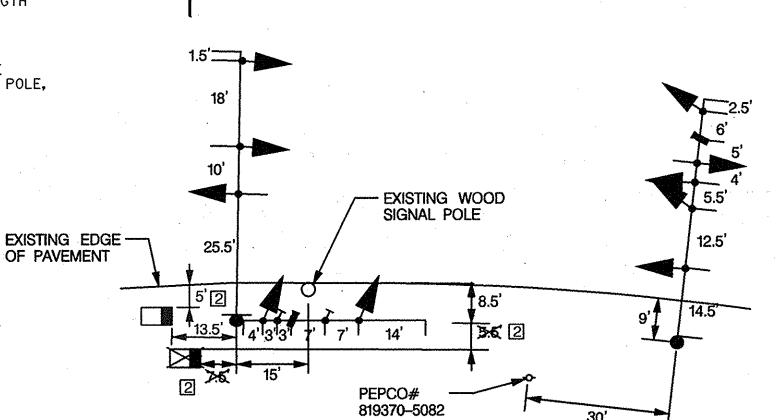
2 Washington Gas: Don Jones Phone: 703-750-5510

PHASE CHART

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PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	ンマ
PHASE 2 & 6 CHANGE	Y	Y	Y,	Υ	Y	Y	R	R	R	R	
PHASE 3	R	R	R	R	R	R	G	G	R	R	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
PHASE 3 CHANGE	R	R	R	R	R	R	Y	Y	R	R	
PHASE 4	R	R	R	R	R	R	R	R	G	G	> /.
PHASE 4 CHANGE	R	R	R	R	R	R	R ·	R	Υ	Υ	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y,	FL/Y	FL/Y	FL/Y	FL/R	FL/Ŕ	FL/R	FL/R	X



I SIGNAL POLE DETAIL LAYOUT



EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

<u>QUANTITY</u>

12 EA

ITEM NO

9000

	9016	I EA	[UPDATED] 4 CHANNEL DETECTOR AMPLIFIER	
,	9044	I EA	[UPDATED] CONTROLLER CABINET, SIZE 6	
	9086	I EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	
	9571	5I SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN:	
			I EACH - R3-5(L) (30 IN. X 36 IN.)	
			I EACH - R3-5(R) (30 IN. X 36 IN.)	
	4			

12 INCH OPTICALLY PROGRAMMED SIGNAL HEAD SECTION

I EACH - SHIELD ASSEMBLY (30 IN. X 51 IN.) WEST, MD 218, RIGHT ARROW

I EACH - SHIELD ASSEMBLY (48 IN. X 75 IN.) 'EAST, MD 218, LEFT ARROW"

DESCRIPTION

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

. [TEM NO	QUANTITY	DESCRIPTION	
	1001	2 EA	MAINTENANCE OF TRAFFIC	
	2002	2 CY	TEST PIT EXCAVATION	
	5005	85 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT M	ARKINGS
	5007	2 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING A	RROWS
	6002	100 SF	4 INCH CONCRETE SIDEWALK	
	8000	12 EA	INSTALL 12 INCH OPTICALLY PROGRAMMED SIGNAL HEAD SECTION	
	8001	12 EA	12 INCH LED SIGNAL HEAD SECTION (R,Y,G)	•
	8004	6 EA	8 INCH LED SIGNAL HEAD SECTION	
1	-8017	+EA	MAST ARM POLE & 60 FT MAST ARM	
1	8019	1 EA	MAST ARM POLE & 50 FT MAST ARM	
	8021 🚹 2	2 EA -4 EA	NONINVASIVE DETECTOR (ANY LENGTH)	
•	8022	I EA	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT	
	8023	I EA	TWIN MAST ARM POLE & 50 FT/60 FT MAST ARMS ANY "T" DIMENSION	
	8026	4 EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT	
	8031	70 LF	CABLE - I CONDUCTOR, 250 KCML, CU, USE	
[] -8034		SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES SLOTTED	
	8035 1 6 2	O LF 925 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED	
	8036 11 6	5 LF 135 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED	
	8037	20 LF	WOOD SIGN SUPPORTS UP TO 4 X 6	
	8039	5I SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	
	8041	170 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	
	8043	I EA	METERED SERVICE PEDESTAL	
	8047 1 9) EA -16-EA-	FURNISH AND INSTALL ELECTRICAL HANDHOLE	
	8052	2 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	
	8056	100 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	
4	8057	750 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	
	8065	I EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT	
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EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

DESCRIPTION NONE

ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

GREENLINE REVISION 03-23-2007

REDLINE REVISION

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 218 (SUITLAND ROAD) AND EWING AVENUE/SHADYSIDE AVENUE

GENERAL INFORMATION

SCALE NONE	DAIL _	11/2006 CUNTRACT NU A19105185
DESIGNED BY		COUNTY PRINCE GEORGE'S LOGMILE 16021801.23
DRAWN BY CHECKED BY	BAB	T.I.M.S. NO. <u>H217</u>
F.A.P. NO		TOD NO

SHEET NO. 2 OF 2

DRAWING NO. TS-2252B OF